EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	0	gas ejector one vibrator plurality ejecting sections arranged eject pulsating gas flow sound waves generated bibrations upper lower portion same wave form reversed weaken phases first control unit frequency.clm.	US-PGPUB	AND	OFF	2011/05/08 10:44
L3	0	gas ejector one vibrator plurality ejecting sections arranged eject pulsating gas flow sound waves generated bibrations upper lower portion same wave form reversed weaken phases first control unit frequency	US-PGPUB	AND	OFF	2011/05/08 10:44
L4	0	gas one vibrator plurality sections arranged eject$3 pulsating gas flow sound waves generated bibrations upper lower portion same wave form reversed weaken phases first control unit frequency	US-PGPUB	AND	OFF	2011/05/08 10:45
L5	0	gas ejector one vibrator plurality ejecting sections arranged eject pulsating gas flow sound waves generated vibrations upper lower portion same wave form reversed weaken phases first control unit frequency.clm.	US-PGPUB	AND	OFF	2011/05/08 10:46
L6	0	gas one vibrator plurality sections arranged eject$3 pulsating gas flow sound waves generated vibrations upper lower portion same wave form reversed weaken phases first control unit frequency	US-PGPUB	AND	OFF	2011/05/08 10:46
L7	0	gas vibrator plurality eject$3 pulsating gas flow sound waves generated vibrations upper lower portion same wave revers$3 weaken phases first control frequenc$3	US-PGPUB	AND	OFF	2011/05/08 10:47
L8	0	gas vibrator plurality eject$3 pulsating gas flow sound waves generated vibrations upper lower portion same wave revers$3 weaken phases first control frequenc$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2011/05/08 10:47
L9	1	gas vibrator plurality eject$3 pulsating gas flow sound waves generated vibrations upper lower portion same wave revers$3 weaken phases first control frequenc$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 10:47

L16	1	jp55101800	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 11:11
L17	0	jp55101800a	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 11:11
L18	0	wo55101800	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 11:12
L19	1	wo "55101800"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 11:12
L20	38	("4498851" | "4595338").PN. OR ("5008582").URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2011/05/08 11:29
L21	178827	("361").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/05/08 13:44
L22	838195	(("165") or ("257") or ("417") or ("239")).CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/05/08 13:44
L23	182	(L21 or L22) (gas or fluid adj2 (eject$3 or nozzle or pump$3)) (frequenc $3 or amplitud$3 adj2 (control$3)) (vibrat$3 adj3 (control$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 13:44
L24	181	23 (frequenc$3 or sound or waves or waveform adj2 (weak$5 or cancel $4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 13:46
L25	32	24 (invert$3 or revers$3 adj2 (amplitude or phase$2)) frequency (gas or jet or cool$3 adj2 (flow or vibrat$3 or pulsat$3 or frequenc$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 13:48

L26	115	24 (invert$3 or revers$3 or opposite $2 or mirror$2 adj2 (amplitude or phase$2)) frequency (gas or jet or cool$3 adj2 (flow or vibrat$3 or pulsat $3 or frequenc$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 13:49
L27	32	25 26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 13:49
L28	43	26 (vibrator or diaphragm or actuat $3 adj2 (eject$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 13:51
L29	44	26 (vibrator or diaphragm or actuat $3 adj3 (phase$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 13:52
L30	12	27 29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 13:52
L31	7503	361/692,694,695,699,700.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2011/05/08 13:58
L32	3	23 L31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 13:58
L33	61	(L21 or L22) (sound or noise adj2 (weak$3 or cancel or cancellation)) (frequenc$3 or amplitud$3 adj2 (control$4)) (vibrat$3 adj3 (control $4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 14:00
L34	26	33 (gas or fluid adj2 (eject$3 or nozzle or pump$3 or outlet or vibrat $3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 14:02

L35	35	33 (gas or fluid or jet adj2 (eject$3 or nozzle or pump$3 or outlet or vibrat$3 or jet))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/05/08 14:03
S1	34	((HIROICHI) near2 (ISHIKAWA)).INV.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/05 12:47
S2	13	((TOMOHARU) near2 (MUKASA)).INV.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/05 12:47
S3	4	("6123145" | "6588497").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/01/05 12:48
S4	43	("4171852" | "4180377" | "4261689" | "4406323" | "4450505" | "4495947" | "4501319" | "4941398" | "5034688" | "5087175" | "5121290" | "5395592" | "5402312" | "5742954" | "5861703" | "5894990" | "5931643" | "5953209" | "5988522" | "6059020" | "6123145" | "6315031" | "6343014" | "6356435" | "6405794" | "6457654").PN. OR ("6588497").URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/05 14:31
S5	114	(smith adj2 (courtney))	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/05 14:33
S6	0	(11/911179).APP.	USPAT; USOCR	AND	OFF	2010/01/05 14:38
S7	10	("20050089415" | "20050056030" | "3373752" | "4498851" | "4648807" | "4923000" | "4350838" | "5336062" | "6123145" | "6588497" | "6123145" | "6367470" | "6588497").PN.	USPAT; USOCR	AND	OFF	2010/01/05 14:40
S8	43	("4171852" | "4180377" | "4261689" | "4406323" | "4450505" | "4495947" | "4501319" | "4941398" | "5034688" | "5087175" | "5121290" | "5395592" | "5402312" | "5742954" | "5861703" | "5894990" | "5931643" | "5953209" | "5988522" | "6059020" | "6123145" | "6315031" | "6343014" | "6356435" | "6405794" | "6457654").PN. OR ("6588497").URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/05 14:41
S9	0	("2006/0245163").URPN.	USPAT	AND	OFF	2010/01/05 14:43
S10	12	("20040223302" | "5758823" | "5798465" | "6123145" | "6353295" | "6588497").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/01/05 14:44

S11	30	("4109108" | "4648807" | "4665549" | "4753318" | "4923031" | "5058702" | "5077601" | "5270484" | "5692054" | "5758823" | "5798465" | "6123145" | "6588497" | "6937472").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/01/05 14:46
S12	231	glezer.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/05 15:02
S13	168489	("361").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/01/05 15:02
S14	5	S12 S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/01/05 15:02
S15	1	(11/599603).APP.	USPAT; USOCR	AND	OFF	2010/01/05 15:02
S16	1	(11/599628).APP.	USPAT; USOCR	AND	OFF	2010/01/05 15:03
S17	156	("20010037875" | "20020056908" | "20020080582" | "20020098097" | "20030043531" | "20030066628" | "20030075615" | "20030110788" | "20030133587" | "20030177899" | "20040125561" | "20040231341" | "20050013116" | "20050031137" | "20050074662" | "20050105757" | "20050111185" | "20050121171" | "20050163338" | "20050284612" | "20060016581" | "20060022092" | "20060145027" | "20060164805" | "3464672" | "4031171" | "4170244" | "4238425" | "4257224" | "4350838" | "4406323" | "4498851" | "4501319" | "4533082" | "4590399" | "4590970" | "4595338" | "4664345" | "4667877" | "4693201" | "4697116" | "4697769" | "4708600" | "4727930" | "4763225" | "4780062" | "4802642" | "4923000" | "4930701" | "4930705" | "4932610" | "4938279" | "4938742" | "4939405" | "4941398" | "4969802" | "4976311" | "4989810" | "5008582" | "5034688" | "5040560" | "5083194" | "5107398" | "5137079" | "5142260" | "5154347" | "5156306" | "5165243" | "5183104" | "5190099" | "5199640" | "5199856" | "5209438" | "5226597" | "5242110" | "5251817" | "5303555" | "5316075" | "5335143" | "5346745" | "5361989" |	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/05 15:03

		"5395592" | "5402312" | "5411208" | "5419780" | "5429302" | "5437421" | "5493615" | "5516043" | "5542176" | "5558156" | "5595205" | "5681152" | "5758823" | "5791601" | "5797414" | "5798465" | "5857619" | "5861703" | "5873408" | "5876187" | "5881954" | "5894990" | "5901037" | "5921757" | "5957413" | "5983944" | "5988522" | "5996903" | "5997671" | "6016969" | "6032464" | "6056204" | "6059020" | "6109222" | "6123145" | "6137891").PN. OR ("6186748" | "6247525" | "6280148" | "6315215" | "6333852" | "6405794" | "6412732" | "6440212" | "6451175" | "6457654" | "6458618" | "6475658" | "6481984" | "6554607" | "6588497" | "6628522" | "6629425" | "6631077" | "6644598" | "6650542" | "6668911" | "6669115" | "6722581" | "6725670" | "6759159" | "6801430" | "6809928" | "6817204" | "6824915" | "6843310" | "6848631" | "6937472" | "6988706" | "7023697" | "7039213" | "7055329" | "7092254" | "RE33448").PN. OR ("7607470").URPN.				
S18	24	("20010037875" | "20020056908" | "20020080582" | "20020098097" | "20030043531" | "20030066628" | "20030075615" | "20030110788" | "20030133587" | "20030177899" | "20040125561" | "20040231341" | "20050013116" | "20050031137" | "20050074662" | "20050105757" | "20050111185" | "20050121171" | "20050163338" | "20050284612" | "20060016581" | "20060022092" | "20060145027" | "20060164805" | "3464672" | "4031171" | "4170244" | "4238425" | "4257224" | "4350838" | "4406323" | "4498851" | "4501319" | "4533082" | "4590399" | "4590970" | "4595338" | "4664345" | "4667877" | "4693201" | "4697116" | "4697769" | "4708600" | "4727930" | "4763225" | "4780062" | "4802642" | "4923000" | "4930701" | "4930705" | "4932610" | "4938279" | "4938742" | "4939405" | "4941398" | "4969802" | "4976311" | "4989810" | "5008582" | "5034688" | "5040560" | "5083194" | "5107398" | "5137079" | "5142260" | "5154347" | "5156306" | "5165243" | "5183104" | "5190099" | "5199640" | "5199856" | "5209438" | "5226597" | "5242110" | "5251817" | "5303555" | "5316075" | "5335143" | "5346745" | "5361989" | "5395592" | "5402312" | "5411208" | "5419780" | "5429302" | "5437421" | "5493615" | "5516043" | "5542176" | "5558156" | "5595205" | "5681152" |	US-PGPUB	AND	OFF	2010/01/05 15:05

		"5758823"	"5791601"	"5797414"	"5798465"	"5857619"	"5861703"	"5873408"	"5876187"	"5881954"	"5894990"	"5901037"	"5921757"	"5957413"	"5983944"	"5988522"	"5996903"	"5997671"	"6016969"	"6032464"	"6056204"	"6059020"	"6109222"	"6123145"	"6137891"). PN. OR ("6186748" | "6247525" | "6280148" | "6315215" | "6333852" | "6405794" | "6412732" | "6440212" | "6451175" | "6457654" | "6458618" | "6475658" | "6481984" | "6554607" | "6588497" | "6628522" | "6629425" | "6631077" | "6644598" | "6650542" | "6668911" | "6669115" | "6722581" | "6725670" | "6759159" | "6801430" | "6809928" | "6817204" | "6824915" | "6843310" | "6848631" | "6937472" | "6988706" | "7023697" | "7039213" | "7055329" | "7092254" | "RE33448"). PN. OR ("7607470").URPN.				
S19	11	("20050035684" | "20060034051" | "4399484" | "4583056" | "5563768" | "5712762" | "5724229" | "6736192" | "7170745" | "7233493" | "7262964"). PN. OR ("7450381").URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/05 15:11
S20	788819	(("165") or ("257") or ("417") or ("239")).CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/01/05 15:17
S21	99	S20 (piezoelectric$3 or thermoelectric $3 adj3 (frequenc$3 or amplitud$3)) (vibrat$3 adj3 (control$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/05 15:21
S22	11	S21 (gas or fluid or air or airflow adj3 (vibrat$3 or frequenc$3 or amplitude)) (sound or noise) (control $3 adj3 (frequenc$3 or amplitude or vibration))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/05 15:27
S23	18	S21 (gas or fluid or air or airflow adj3 (vibrat$3 or frequenc$3 or amplitude)) (sound or noise) frequenc $3 amplitude vibration	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/05 15:30
S24	9	S23 not S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/05 15:31

S25	24	S13 (piezoelectric$3 or thermoelectric $3 adj3 (frequenc$3 or amplitud$3)) (vibrat$3 adj3 (control$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/05 15:31
S26	6	S25 (gas or fluid or air or airflow adj3 (vibrat$3 or frequenc$3 or amplitude)) (sound or noise) frequenc $3 amplitude vibration	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/05 15:31
S27	75	"200909219686" or "5894985" or "5894980" or "5628411" or "6308740"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/05 15:36
S32	38	("20010001278" | "20020175596" | "20030015035" | "20040217671" | "20060006764" | "3743446" | "4011474" | "4063826" | "4170244" | "4322449" | "4498851" | "4512933" | "4595338" | "4684328" | "4697738" | "4753579" | "4780062" | "4834619" | "4923000" | "5008582" | "5256159" | "5419780" | "5520715" | "5628411" | "5697153" | "5702618" | "5705070" | "5861703" | "5982801" | "6065688" | "6164140" | "6252769" | "6308740" | "6361747" | "6467350" | "6576042" | "6638032" | "6654392").PN. OR ("7282837").URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/07 14:04
S33	45	("4498851" | "4595338" | "4751713" | "4753579" | "4780062" | "4834619" | "4923000" | "5008582" | "5151626" | "5192197" | "5381950" | "5558156").PN. OR ("5861703"). URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/07 15:13
S34	0	(10/126867).APP.	US-PGPUB; USOCR	AND	OFF	2010/01/07 15:43
S35	245666	("73").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/01/07 17:42
S36	978	S35 (amplitude adj3 (range or height or mm or millimeter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/07 17:43

S37	3	S35 (amplitude adj3 (1mm or 2mm or 3mm))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/07 17:44
S38	1	S36 (amplitude adj3 (1mm or 2mm or 3mm))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/07 17:44
S39	886	S35 (amplitude adj3 (range or height or millimeter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/07 17:47
S40	168564	("361").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/01/07 17:48
S41	789155	(("165") or ("257") or ("417") or ("239")).CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/01/07 17:48
S42	4	S39 (S40 or S41)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/07 17:48
S43	6626	361/692,694,695,699,700.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/01/08 16:33
S44	7	S43 (piezoelectric$3 or thermoelectric $3 or electromagnetic adj3 (frequenc $3 or amplitud$3)) (vibrat$3 adj3 (control$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/08 16:36
S45	1	S43 (piezoelectric$3 or thermoelectric $3 or electromagnetic or actuator adj3 (frequenc$3 or amplitud$3)) (vibrat$3 adj3 (control$4)) (actuat$3 adj3 (vibrat$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/08 16:36

S46	12	S43 (piezoelectric$3 or thermoelectric$3 or electromagnetic or actuator adj3 (frequenc$3 or amplitud$3)) (vibrat$3 adj3 (control$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/08 16:37
S47	0	S43 (diaphragm adj3 (frequenc$3 or amplitud$3)) (vibrat$3 adj3 (control$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/08 16:37
S48	0	S43 (actuat$3 adj3 (frequenc$3 or amplitud$3)) (vibrat$3 adj3 (control$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/08 16:38
S49	1	S43 (gas adj3 (eject$3 or nozzle or pump$3)) (frequenc$3 or amplitud$3) (vibrat$3 adj3 (control$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/08 16:39
S50	7	S43 (air or cool$3 or fluid adj3 (eject$3 or nozzle or pump$3)) (frequenc$3 or amplitud$3) (vibrat$3 adj3 (control$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/01/08 16:40
S51	8	(US-6588497-$ or US-5894990-$ or US-5798465-$ or US-7282837-$ or US-6308740-$ or US-5861703-$ or US-4923000-$ or US-4753579-$).did.	USPAT	AND	OFF	2010/07/12 08:36
S52	23	(US-6588497-$ or US-7606029-$ or US-7252140-$ or US-5894990-$ or US-5121290-$ or US-7450381-$ or US-6123145-$ or US-5798465-$ or US-4648807-$ or US-7420807-$ or US-7282837-$ or US-6308740-$ or US-6252769-$ or US-5982801-$ or US-5861703-$ or US-5008582-$ or US-4923000-$ or US-7638928-$ or US-7607470-$ or US-7321184-$ or US-4780062-$ or US-4753579-$).did. or (WO-9926457-$).did.	USPAT; DERWENT	AND	OFF	2010/07/12 08:36
S53	0	(S51 or S52) (frequenc$3 adj2 (weak$5 or cancel$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/07/12 08:37
S54	0	(S51 or S52) (frequenc$3 adj2 (damp$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/07/12 08:37

S55	0	(S51 or S52) (frequenc$3) (db adj2 (sound or noise))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/07/12 10:49
S56	0	(S51 or S52) (frequenc$3) (db near (sound or noise))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/07/12 10:50
S58	2	(S51 or S52) db	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/07/12 10:50
S59	8	(US-6588497-$ or US-5894990-$ or US-5798465-$ or US-7282837-$ or US-6308740-$ or US-5861703-$ or US-4923000-$ or US-4753579-$).did.	USPAT	AND	OFF	2010/11/16 15:06
S60	23	(US-6588497-$ or US-7606029-$ or US-7252140-$ or US-5894990-$ or US-5121290-$ or US-7450381-$ or US-6123145-$ or US-5798465-$ or US-4648807-$ or US-7420807-$ or US-7282837-$ or US-6308740-$ or US-6252769-$ or US-5982801-$ or US-5861703-$ or US-5008582-$ or US-4923000-$ or US-7638928-$ or US-7607470-$ or US-7321184-$ or US-4780062-$ or US-4753579-$).did. or (WO-9926457-$).did.	USPAT; DERWENT	AND	OFF	2010/11/16 15:06
S61	20	(S59 or S60) (frequenc$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/11/16 15:06
S62	23	(US-6588497-$ or US-7606029-$ or US-7252140-$ or US-5894990-$ or US-5121290-$ or US-7450381-$ or US-6123145-$ or US-5798465-$ or US-4648807-$ or US-7420807-$ or US-7282837-$ or US-6308740-$ or US-6252769-$ or US-5982801-$ or US-5861703-$ or US-5008582-$ or US-4923000-$ or US-7638928-$ or US-7607470-$ or US-7321184-$ or US-4780062-$ or US-4753579-$).did. or (WO-9926457-$).did.	USPAT; DERWENT	AND	OFF	2010/11/17 09:58
S63	2	S62 (revers$3 adj2 (phase$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/11/17 09:58

S64	10	(vibrat$3 adj2 (gas or fluid)) (revers$3 adj2 (phase$2)) (sound or noise adj3 (weaken$3 or dampen$3 or cancel$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/11/17 10:45
S65	10	(vibrat$3 adj2 (gas or fluid)) (revers$3 adj2 (phase$2)) (sound or noise adj3 (weaken$3 or dampen$3 or cancel$5 or damp$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/11/17 10:49
S66	0	(10/982283).APP.	USPAT; USOCR	AND	OFF	2010/11/17 10:58
S67	35	("3029743" | "4109108" | "4648807" | "4665549" | "4753318" | "4923031" | "5058702" | "5077601" | "5270484" | "5692054" | "5758823" | "5798465" | "6123145" | "6588497" | "6937472").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/11/17 11:01
S68	1	(invert$3 adj2 (amplitude)) frequency (chamber adj2 (vibrat$3)) (gas or jet adj2 (eject$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/04/25 17:38
S69	196	(invert$3 adj2 (amplitude)) frequency (gas or jet or cool$3 adj2 (flow or vibrat$3 or pulsat$3 or frequenc$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/04/25 17:42
S70	70898	(invert$3 or revers$3 adj2 (amplitude or phase$2)) frequency (gas or jet or cool$3 adj2 (flow or vibrat$3 or pulsat$3 or frequenc$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/04/25 17:43
S71	15	S70 (control$3 adj2 (frequenc$3 or amplitude$2)) (control$3 adj2 (vibrat$3)) (eject$3 or nozzle$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/04/25 17:45
S72	196	S69 (invert$3 or revers$3 adj2 (amplitude or phase$2)) frequency (gas or jet or cool$3 adj2 (flow or vibrat$3 or pulsat$3 or frequenc$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/04/25 17:45
S73	1	S69 (control$3 adj2 (frequenc$3 or amplitude$2)) (control$3 adj2 (vibrat$3)) (eject$3 or nozzle$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/04/25 17:48

| S74 | 3 | ("2009/0219686").URPN. | USPAT | AND | OFF | 2011/04/25 17:49 |
| S75 | 14 | S72 (sound adj2 (wave$2)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2011/04/25 18:12 |

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